CLAIMS

- 1. A curable composition for a transparent material which comprises a vinyl polymer (I) the main chain of which is the product of living radical polymerization and which contains at least one crosslinkable silyl group, and an antioxidant (II).
- 2. The curable composition according to Claim 1
 wherein the transparent material is a material for building and construction, a material for civil engineering, a material for transport or a material for automobile.
 - 3. The curable composition according to Claim 1 or 2 wherein the transparent material is glass, a polycarbonate or a (meth)acrylic resin.
- 4. The curable composition according to any one of Claims 20 1 to 3

wherein the transparent material has a layer having photocatalytic activity-due antistaining properties as provided on the surface thereof.

- 5. The curable composition according to Claim 4 wherein the surface layer having photocatalytic activity-due antistaining properties is a layer comprising a material having photocatalytic activity and, further, a hydrophilic material.
 - 6. The curable composition according to any one of Claims $1\ \text{to}\ 5$

wherein the antioxidant (II) is a hindered phenol compound.

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7. The curable composition according to any one of Claims $1\ \text{to}\ 6$

which further comprises a plasticizer (III).

- 5 8. The curable composition according to Claim 7 wherein the plasticizer (III) is a phthalic ester.
- 9. The curable composition according to Claim 7 wherein the plasticizer (III) is a polyoxyalkylene 10 polymer.

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10. The curable composition any one of Claims 1 to 9 wherein the vinyl polymer (I) has a molecular weight distribution of less than 1.8.

11. The curable composition according to any one of Claims 1 to 10

wherein a vinyl monomer constituting the main chain of the vinyl polymer (I) is mainly selected from the group consisting of (meth) acrylic monomers, acrylonitrile monomers, aromatic vinyl monomers, fluorine-containing vinyl monomers and silicon-containing vinyl monomers.

- 12. The curable composition according to any one of Claims 25 1 to 11
 - wherein the main chain of the vinyl polymer (I) is a (meth)acrylic polymer.
- \$13\$. The curable composition according to any one of Claims $$30\ 1$$ to \$12\$

wherein the main chain of the vinyl polymer (I) is an acrylic polymer.

14. The curable composition according to Claim 13 wherein the main chain of the vinyl polymer (I) is an

acrylic ester polymer.

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- 15. The curable composition according to any one of Claims 1 to 14
- wherein the living radical polymerization for producing the main chain of the vinyl polymer (I) is the atom transfer radical polymerization.
- 16. The curable composition according to Claim 15
 wherein a transition metal complex used as the catalyst
 in the atom transfer radical polymerization is one composed of
 a VII, VIII, IX, X, or XI group element in the periodic table
 as a central metal.
- 17. The curable composition according to Claim 16 wherein the metal complex used as the catalyst is a complex composed of copper, nickel, ruthenium or iron as a central metal.
- 20 18. The curable composition according to Claim 17 wherein the metal complex used as the catalyst is a complex of copper.
- 19. The curable composition according to any one of Claims25 1 to 18

wherein the crosslinkable silyl group of the vinyl polymer (I) is represented by the following general formula 1: $-[Si(R^{10})_{2-b}(Y)_bO]_1-Si(R^{11})_{3-a}(Y)_a \qquad (1)$

(wherein, R^{10} and R^{11} are the same or different and each is an alkyl group containing 1 to 20 carbon atoms, an aryl group containing 6 to 20 carbon atoms, an aralkyl group containing 7 to 20 carbon atoms or a triorganosiloxy group represented by $(R')_3SiO-$ (in which R' represents a univalent hydrocarbon group containing 1 to 20 carbon atoms and the three R' groups may be the same or different) and, when there are two or more R^{10} or

 R^{11} groups, they may be the same or different; Y represents a hydroxyl group or a hydrolyzable group and, when there are two or more Y groups, they may be the same or different; a represents 1, 2 or 3, b represents 0, 1 or 2, and 1 represents an integer of 0 to 19, provided that the relation $a + 1b \ge 1$ should be satisfied.}

- 20. The curable composition according to any one of Claims 1 to 19
- wherein the crosslinkable silyl group of the vinyl polymer (I) is at the terminus of the main chain.
 - 21. The curable composition according to any one of Claims $1\ \text{to}\ 20$
- which further comprises a polyoxyalkylene polymer (IV) containing at least one crosslinkable silyl group in an amount within the range of 0.1 to 1,000 parts by weight per 100 parts by weight of the vinyl polymer (I).
- 22. The curable composition according to any one of Claims 1 to 21

which further comprises a polymer (V) containing a crosslinkable silyl group as obtained by a radical polymerization technique other than living radical polymerization in an amount within the range of 3 to 300 parts by weight per 100 parts by weight of the vinyl polymer (I).

- 23. The curable composition according to any one of Claims 1 to 22
- which further comprises 0.1 to 20 parts by weight of a tin curing catalyst (VI) per 100 parts by weight of the vinyl polymer (I).
 - 24. An adhesive

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which is produced by using the curable composition

according to any one of Claims 1 to 23.

25. A sealing material

which is produced by using the curable composition according to any one of Claims 1 to 23.

26. A liquid gasket

which is produced by using the curable composition according to any one of Claims 1 to 23.

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